System Requirements

SuccessMaker 6

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Overview

Based on current hardware and software technologies, Pearson has determined that the system requirements listed in this document will deliver acceptable operation and performance for the SuccessMaker 66 product.

Your site's actual performance may vary due to the following:

- Server application load
- Available network bandwidth
- Client security configuration
- Number of concurrent users
- Total student population
- Courseware usage
- Other variables

System requirements change due to rapid advances and changes in technology, as well as product enhancements. If you have questions regarding the suitability of your specific computing environment, contact your Pearson Sales Representative.

Because system requirements are subject to change, always review the latest system requirements at: support.pearsonschool.com

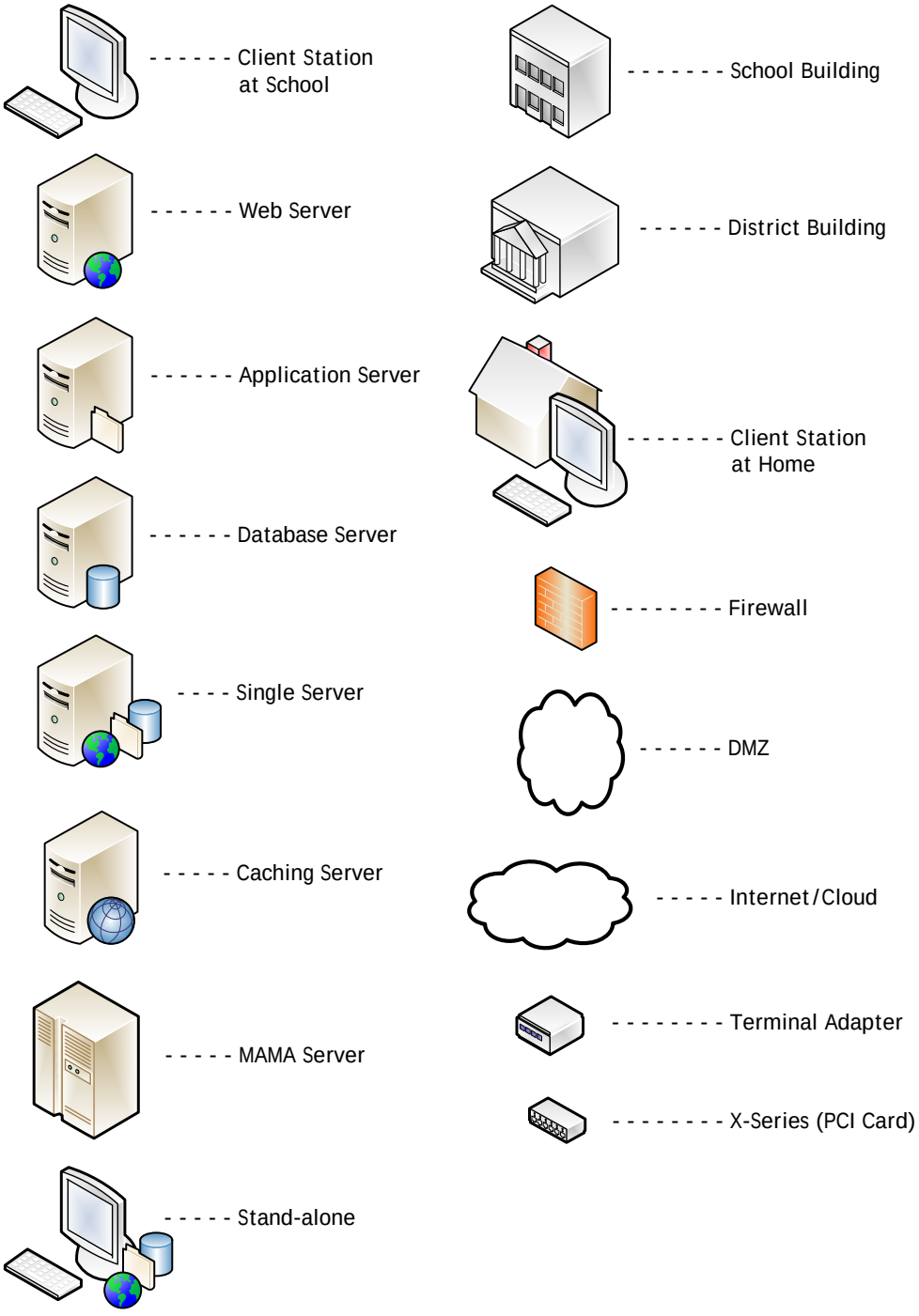
For more information about Digital Learning Solutions, go to: pearsonschool.com/digital

These specifications are intended strictly as a guideline. They were developed in an environment free from network congestion, resource contention, and aggressive security measures.

Consider the minimum requirements applicable only if your workstations use a minimally configured and supported operating system, a minimally configured virus scanner, and only this Pearson application.

Figure Diagram Legend

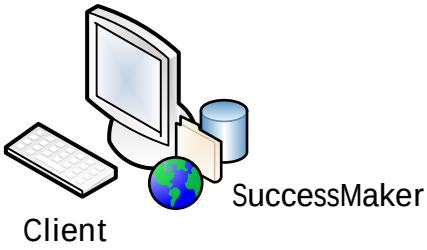
Use this legend to identify product components, network, server, client, and location.


- - - - - - Client Station at School
- - - - - - Web Server
- - - - - - Application Server
- - - - - - Database Server
- - - - Single Server
- - - - - Caching Server
- - - - - MAMA Server
- - - - - Stand-alone
- - - - - - - School Building
- - - - - - District Building
- - - - - - - Client Station at Home
- - - - - - - - Firewall
- - - - - - DMZ
- - - - - Internet/Cloud
- - - - - - - - Terminal Adapter
- - - - - - - - X-Series (PCI Card)

2

Stand-alone Deployment

The Stand-alone deployment supports one workstation that acts as the client and server at the same time. The workstation will have all the SuccessMaker product components installed: web, application, and database.



One Concurrent Student

Supports one concurrent client up to a total student population of 40. **Requires one dedicated physical client.**
Client running: Web, Application, and Database
Operating Systems: • ***** Windows XP (32-bit / 64-bit) *See Windows XP note.* • Windows Vista (32-bit / 64-bit) • Windows 7 (32-bit / 64-bit) • Mac OS X 10.6.x (32-bit / 64-bit) • Mac OS X 10.7.x (64-bit) • Mac OS X 10.8.x (64-bit) ****** Hardware is based on the operating system manufacturer's system requirements.
Hardware: • Designed for 1024x768 resolution • *** Any speakers or stereo headphones • *** Microphone with noise canceling • 100 GB of available disk space

Supports one concurrent client up to a total student population of 40.
Requires one dedicated physical client.

Software:

- Internet Explorer 8.x, 9.x, 10.x or 11.x (32-bit / 64-bit)
- Safari 5.1.2 – 5.1.9; 6.0.x - 6.1.x (32-bit / 64-bit)
- Firefox (32-bit)
- Chrome (32-bit) - OS X 10.6.x only
- ******** Java Runtime Environment:
  - Windows = 1.6.24 – 1.6.45; 1.7.1 – 1.7.5; 1.7.7 – 1.7.65 (32-bit / 64-bit)
  - Mac = 1.6.24 – 1.6.65 (32-bit and 64-bit); 1.7.7 – 1.7.65 (64-bit)
- Adobe Reader (Teacher only)
- Adobe Flash Player 11.1.x – 14.0.x (32-bit / 64-bit)

Notes:

* Updates and support from Microsoft are no longer available for Windows XP as of April 8, 2014.

****** Microsoft requires 1GB of RAM for a 32-bit operating system and 2GB of RAM for a 64-bit operating system. Pearson recommends having clients with at least 2GB of RAM for optimal performance.

******* Any audio device, headphone, speaker, headset, etc., requires the manufacturer's audio driver. Using the Windows default audio driver will cause student performance issues during sessions.

******** Review the latest Java version recommendations in Knowledge Base article 3991.

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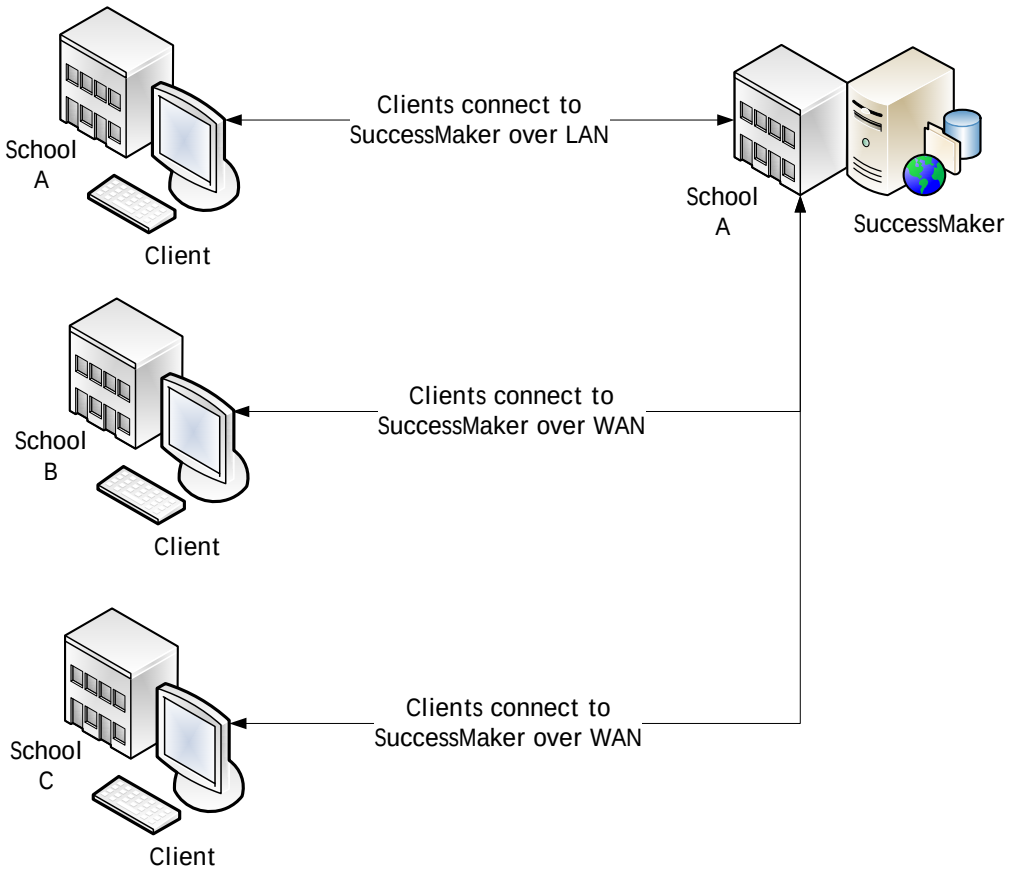
Single Server Deployment

The single server deployment is a model in which all components of the software are installed on one physical server.

Typically, the single server is located in a lab or different school location used by the lab or individual school. The single server can be available to multiple schools, if all requirements are met, including the concurrent student limitation.

Depending on the requirements, a single server can be an effective and low cost solution; one that requires less power and provides simple installation and maintenance.



Up to 200 Concurrent Students

Supports up to 200 concurrent clients up to a total student population of 1,500 **Requires one dedicated physical server**
Server running Web, Application, and Database
Operating System: • Windows Server 2003 R2 SP2 (32-bit / 64-bit) • Windows Server 2008 R2 SP1 (64-bit) • Mac OS X Server 10.7.x (64-bit) • Mac OS X Server 10.8.x (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.1 (64-bit)
Hardware: • Single Intel® Core 2 Duo 2.0 GHz processor • 2 GB of RAM • Single 1000 Mb/s Network Interface Card • Single 7200 RPM SATA hard drive • 100 GB of available disk space

Up to 400 Concurrent Students

Supports up to 400 concurrent clients up to a total student population of 1,500 **Requires one dedicated physical server**
Server running Web, Application, and Database
Operating System: • Windows Server 2003 R2 SP2 (32-bit / 64-bit) • Windows Server 2008 R2 SP1 (64-bit) • Mac OS X Server 10.7.x (64-bit) • Mac OS X Server 10.8.x (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.1 (64-bit)
Hardware: • Single Intel Core 2 Duo 2.13 GHz processor • 4 GB of RAM • Single 1000 Mb/s Network Interface Card • Two 7200 RPM SATA hard drives in RAID 1 • 100 GB of available disk space

Up to 2,000 Concurrent Students

Supports up to 2,000 concurrent clients up to a total student population of 10,000 **Requires one dedicated physical server**
Server running: Web, Application, and Database
Operating System: • Windows Server 2003 R2 SP2 (32-bit / 64-bit) • Windows Server 2008 R2 SP1 (64-bit) • Mac OS X Server 10.7.x (64-bit) • Mac OS X Server 10.8.x (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.1 (64-bit)
Hardware: • Single Intel Xeon® 2.66 GHz quad core processor • 4 GB of RAM • Single 1000 Mb/s Network Interface Card • Two 15,000 RPM SAS hard drives in RAID 1 • 100 GB of available disk space

Up to 3,000 Concurrent Students

Supports up to 3,000 concurrent clients up to a total student population of 20,000 **Requires one dedicated physical server**
One Server running: Web, Application, and Database
Operating System: • Windows Server 2003 R2 SP2 (64-bit) • Windows Server 2008 R2 SP1 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.1 (64-bit)
Hardware: • Dual Intel Xeon 2.66 GHz quad core processors • 6 GB of RAM • Single 1000 MB/s Network Interface Card • Four 15000 RPM SAS hard drives in RAID 1+0 • 100 GB of available disk space

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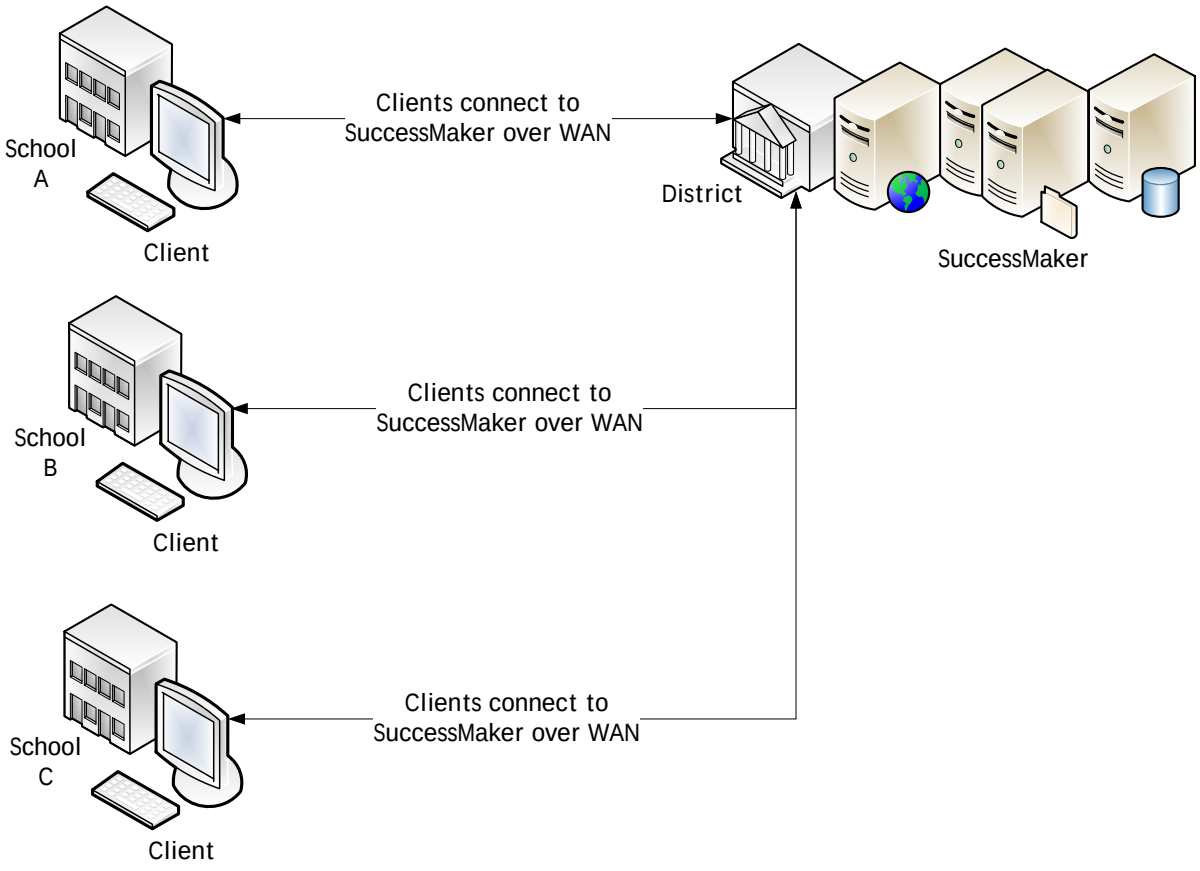
Multiple Server Deployment

The multiple server deployment is a model in which the main components of the software are installed on separate physical servers.

Typically, the servers are located in a district office or server farm used by the entire district or multiple schools.

Depending on the requirements, multiple servers may be necessary to handle the number of clients or to provide a central repository of district-wide data that is used for district reporting.

Multi-server installations vary by customer. A Pearson Sales Engineer should be involved early in the process to discuss the best configuration to implement the product.



Up to 5,000 Concurrent Students

Supports up to 5,000 concurrent clients up to a total student population of 50,000 *** Requires three dedicated physical servers**
One Server running: Web
Operating System: • Windows Server 2003 R2 SP2 (64-bit) • Windows Server 2008 R2 SP1 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.1 (64-bit)
Hardware: • Dual Intel Xeon 2.66 GHz quad core processors • 6 GB of RAM • Single 1000 Mb/s Network Interface Card • Four 15000 RPM SAS hard drives in RAID 1+0 • 30 GB of available disk space
*** One Server running: Application**
Operating System: • Windows Server 2003 R2 SP2 (64-bit) • Windows Server 2008 R2 SP1 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.1 (64-bit)
Hardware: • Dual Intel Xeon 2.66 GHz quad core processors • 6 GB of RAM • Single 1000 Mb/s Network Interface Card • Two 15000 RPM SAS hard drives in RAID 1 • 30 GB of available disk space

Supports up to 5,000 concurrent clients up to a total student population of 50,000 *** Requires three dedicated physical servers**
One Server running: Database
Operating System: • Windows Server 2003 R2 SP2 (64-bit) • Windows Server 2008 R2 SP1 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.1 (64-bit)
Hardware: • Dual Intel Xeon 2.66 GHz quad core processors • 6 GB of RAM • Single 1000 Mb/s Network Interface Card • Four 15000 RPM SAS hard drives in RAID 1+0 • 200 GB of available disk space
***** In implementations where heavy reporting is compiled while student sessions are active, a second Application server will be required and configured for load balancing. Multi-application configurations will then require a total of 4 servers (one Web, two App, and one DB).

Up to 6,000 Concurrent Students

Supports up to 6,000 concurrent clients up to a total student population of 50,000 *** Requires three dedicated physical servers**
One Server running: Web
Operating System: • Windows Server 2003 R2 SP2 (64-bit) • Windows Server 2008 R2 SP1 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.1 (64-bit)
Hardware: • Dual Intel Xeon 2.66 GHz quad core processors • 12 GB of RAM • Single 1000 Mb/s Network Interface Card • Four 15000 RPM SAS hard drives in RAID 1+0 • 30 GB of available disk space
*** One Server running: Application**
Operating System: • Windows Server 2003 R2 SP2 (64-bit) • Windows Server 2008 R2 SP1 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.1 (64-bit)
Hardware: • Dual Intel Xeon 2.66 GHz quad core processors • 12 GB of RAM • Single 1000 Mb/s Network Interface Card • Two 15000 RPM SAS hard drives in RAID 1 • 30 GB of available disk space

Supports up to 6,000 concurrent clients up to a total student population of 50,000 *** Requires three dedicated physical servers**
One Server running: Database
Operating System: • Windows Server 2003 R2 SP2 (64-bit) • Windows Server 2008 R2 SP1 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.1 (64-bit)
Hardware: • Dual Intel Xeon 2.66 GHz quad core processors • 12 GB of RAM • Single 1000 Mb/s Network Interface Card • Four 15000 RPM SAS hard drives in RAID 1+0 • 200 GB of available disk space
***** In implementations where heavy reporting is compiled while student sessions are active, a second Application server will be required and configured for load balancing. Multi-application configurations will require a total of four servers (one Web, two App, and one DB).

Up to 7,000 Concurrent Students

Supports up to 7,000 concurrent clients with a total student population of 50,000 *** Requires three dedicated physical servers**
One Server running: Web
Operating System: • Windows Server 2003 R2 SP2 (64-bit) • Windows Server 2008 R2 SP1 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.1 (64-bit)
Hardware: • Dual Intel Xeon 2.66 GHz quad core processors • 12 GB of RAM • Single 1000 Mb/s Network Interface Card • Four 15000 RPM SAS hard drives in RAID 1+0 • 30 GB of available disk space
*** One Server running: Application**
Operating System: • Windows Server 2003 R2 SP2 (64-bit) • Windows Server 2008 R2 SP1 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.1 (64-bit)
Hardware: • Dual Intel Xeon 2.66 GHz quad core processors • 12 GB of RAM • Single 1000 Mb/s Network Interface Card • Two 15000 RPM SAS hard drives in RAID 1 • 30 GB of available disk space

Supports up to 7,000 concurrent clients with a total student population of 50,000 *** Requires three dedicated physical servers**
One Server running: Database
Operating System: • Windows Server 2003 R2 SP2 (64-bit) • Windows Server 2008 R2 SP1 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.1 (64-bit)
Hardware: • Dual Intel Xeon 2.66 GHz quad core processors • 12 GB of RAM • Single 1000 Mb/s Network Interface Card • Four 15000 RPM SAS hard drives in RAID 1+0 • 200 GB of available disk space
***** In implementations where heavy reporting is compiled while student sessions are active, a second Application server will be required and configured for load balancing. Multi-application configurations will require a total of four servers (one Web, two App, and one DB).

Up to 9,000 Concurrent Students

Supports up to 9,000 concurrent clients with a total student population of 70,000 *** Requires three dedicated physical servers**
One Server running: Web
Operating System: • Windows Server 2003 R2 SP2 (64-bit) • Windows Server 2008 R2 SP1 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.1 (64-bit)
Hardware: • Dual Intel Xeon 2.67 GHz quad core processors • 12 GB of RAM • Single 1000 Mb/s Network Interface Card • Four 15000 RPM SAS hard drives in RAID 1+0 • 30 GB of available disk space
*** One Server running: Application**
Operating System: • Windows Server 2003 R2 SP2 (64-bit) • Windows Server 2008 R2 SP1 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.1 (64-bit)
Hardware: • Dual Intel Xeon 2.67 GHz quad core processors • 12 GB of RAM • Single 1000 Mb/s Network Interface Card • Two 15000 RPM SAS hard drives in RAID 1 • 30 GB of available disk space

Supports up to 9,000 concurrent clients with a total student population of 70,000 *** Requires three dedicated physical servers**
One Server running: Database
Operating System: • Windows Server 2003 R2 SP2 (64-bit) • Windows Server 2008 R2 SP1 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.1 (64-bit)
Hardware: • Four AMD Opteron 2.20 GHz quad core processors • 32 GB of RAM • Single 1000 Mb/s Network Interface Card • Four 15000 RPM SAS hard drives in RAID 1+0 • 200 GB of available disk space
***** In implementations where heavy reporting is compiled while student sessions are active, a second Application server will be required and configured for load balancing. Multi-application configurations will require a total of four servers (one Web, two App, and one DB).

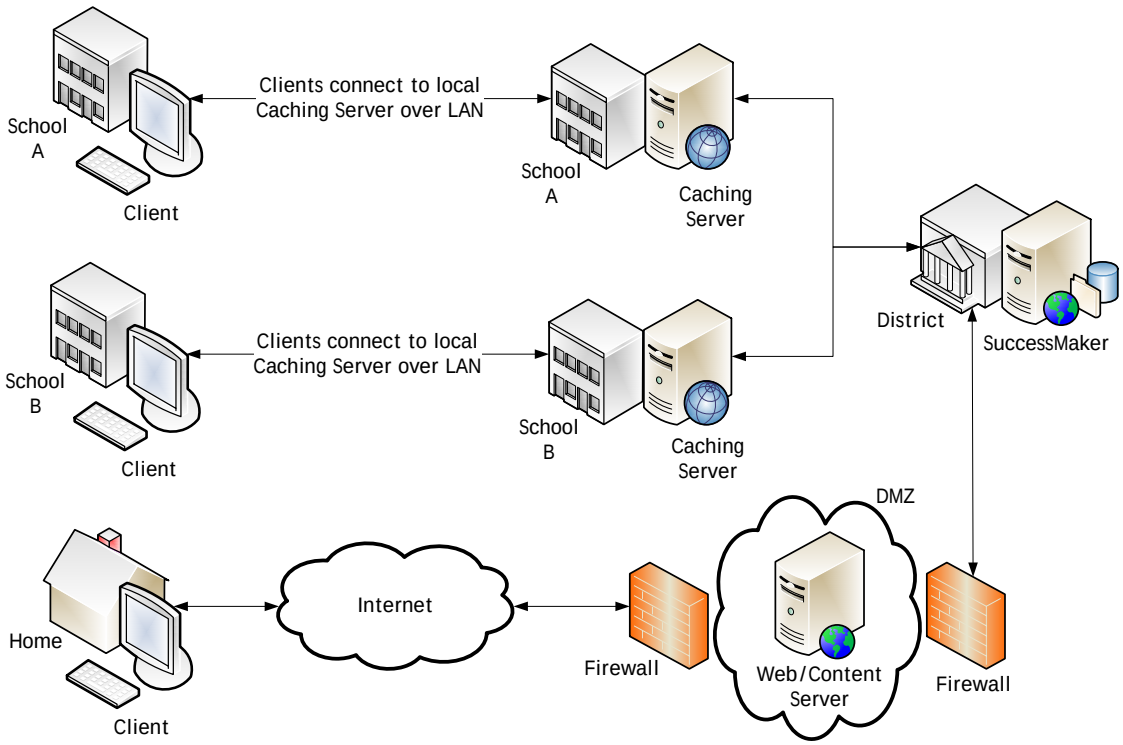
5

Web/Content Server

The Web content server is designed for large implementations at a central location and/or can be used to allow home access.

Typically, the home access Web content server would be located in the DMZ for added security.

Caching solutions are permitted to reduce network traffic between buildings. Each implementation will be unique based upon concurrent student usage and total student population. Contact your Sales Engineer for a successful strategic implementation.



Up to 80 Concurrent Students

Supports up to 80 concurrent clients **Requires one dedicated physical client or server**
Client or Server running: Web
Operating System: • Windows Server 2003 R2 SP2 (32-bit / 64-bit) • Windows Server 2008 R2 SP1 (64-bit) • Mac OS X Server 10.7.x (64-bit) • Mac OS X Server 10.8.x (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.1 (64-bit)
Hardware: • Single Intel® Pentium 4 3.0 GHz processor • 1 GB of RAM (32-bit) or 2 GB of RAM (64-bit) • Single 1000 Mb/s Network Interface Card • Single 7200 RPM SATA hard drive • 30 GB of available disk space

Up to 2,000 Concurrent Students

Supports up to 2000 concurrent clients **Requires one dedicated physical client or server**
Client or Server running: Web
Operating System: • Windows Server 2003 R2 SP2 (32-bit / 64-bit) • Windows Server 2008 R2 SP1 (64-bit) • Mac OS X Server 10.7.x (64-bit) • Mac OS X Server 10.8.x (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.1 (64-bit)
Hardware: • Single Intel® Core Duo 2.13 GHz processor • 2 GB of RAM • Single 1000 Mb/s Network Interface Card • Single 7200 RPM SATA hard drive • 30 GB of available disk space

6

Windows Clients

Windows Clients	
Operating System: • * Windows XP (32-bit / 64-bit) *See Windows XP note.* • Windows Vista (32-bit / 64-bit) • Windows 7 (32-bit / 64-bit) • ** Windows 8 (32-bit / 64-bit) *** Hardware is based on the operating system manufacturer's system requirements.	
Hardware: • Designed for 1024x768 resolution • **** Any speakers or stereo headphones • **** Microphone with noise canceling	
Software: • Internet Explorer 8.x, 9.x, 10.x or 11.x (32-bit / 64-bit) • Firefox (32-bit) • Chrome (32-bit) • ***** Java Runtime Environment 1.6.24 – 1.6.45; 1.7.1 – 1.7.5; 1.7.7 – 1.7.65 (32-bit / 64-bit) • Adobe Reader (Teacher only) • Adobe Flash Player 11.1.x – 14.0.x (32-bit / 64-bit)	
Notes:	* Updates and support from Microsoft are no longer available for Windows XP as of April 8, 2014. ** Tablets are permitted using Windows 8, but not Windows RT. *** Microsoft requires only 1GB of RAM for a 32-bit operating system and 2GB of RAM for a 64-bit operating system. Pearson recommends having clients with at least 2GB of RAM for optimal performance. **** Any audio device, headphone, speaker, headset, etc., requires the manufacturer's audio driver. Using the Windows default audio driver will cause student performance issues during sessions. ***** Review the latest Java version recommendations in Knowledge Base article 3991.

7

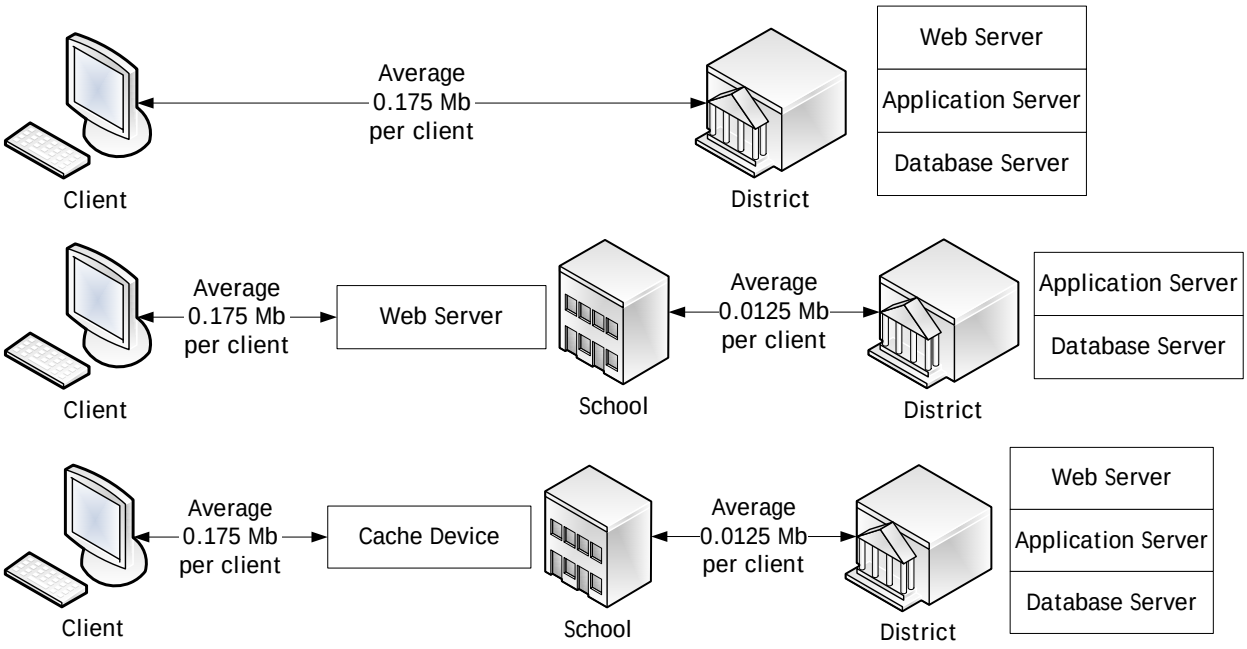
Mac Clients

Mac Clients
Operating System: • Mac OS X 10.6.x (32-bit / 64-bit) • Mac OS X 10.7.x (64-bit) • Mac OS X 10.8.x (64-bit) Hardware is based on the operating system manufacturer's system requirements.
Hardware: • Designed for 1024x768 resolution • Any speakers or stereo headphones • Microphone with noise canceling • Griffin iMic USB audio adapter
Software: • Safari 5.1.2 – 5.1.9; 6.0.x - 6.1.x (32-bit / 64-bit) • Firefox (32-bit) • Chrome (32-bit) - OS X 10.6.x only • ***** Apple Java Runtime Environment 1.6.24 – 1.6.65 (32-bit and 64-bit); Oracle Java Runtime Environment 1.7.7 – 1.7.65 (64-bit) • Adobe Reader (Teacher only) • Adobe Flash Player 11.1.x – 14.0.x (32-bit / 64-bit)
***** Review the latest Java version recommendations in Knowledge Base article 3991.

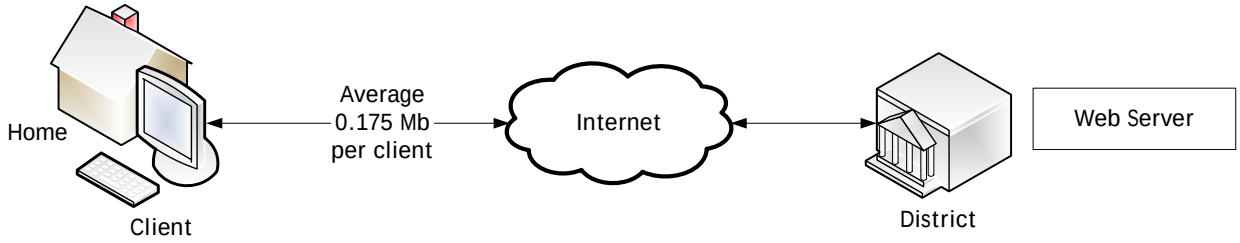
8

Network Bandwidth

Network Bandwidth Requirements: School or District Model



Network Bandwidth Requirements: Home Model



Note: Requires 1.5 Mb/s (Megabit) Internet connection.

Network Bandwidth Requirements: Wireless

Spectrum: 802.11A or 802.11N in 5 GHz spectrum

In properly configured networks, wireless should be acceptable with 15 to 30 stations per access point.

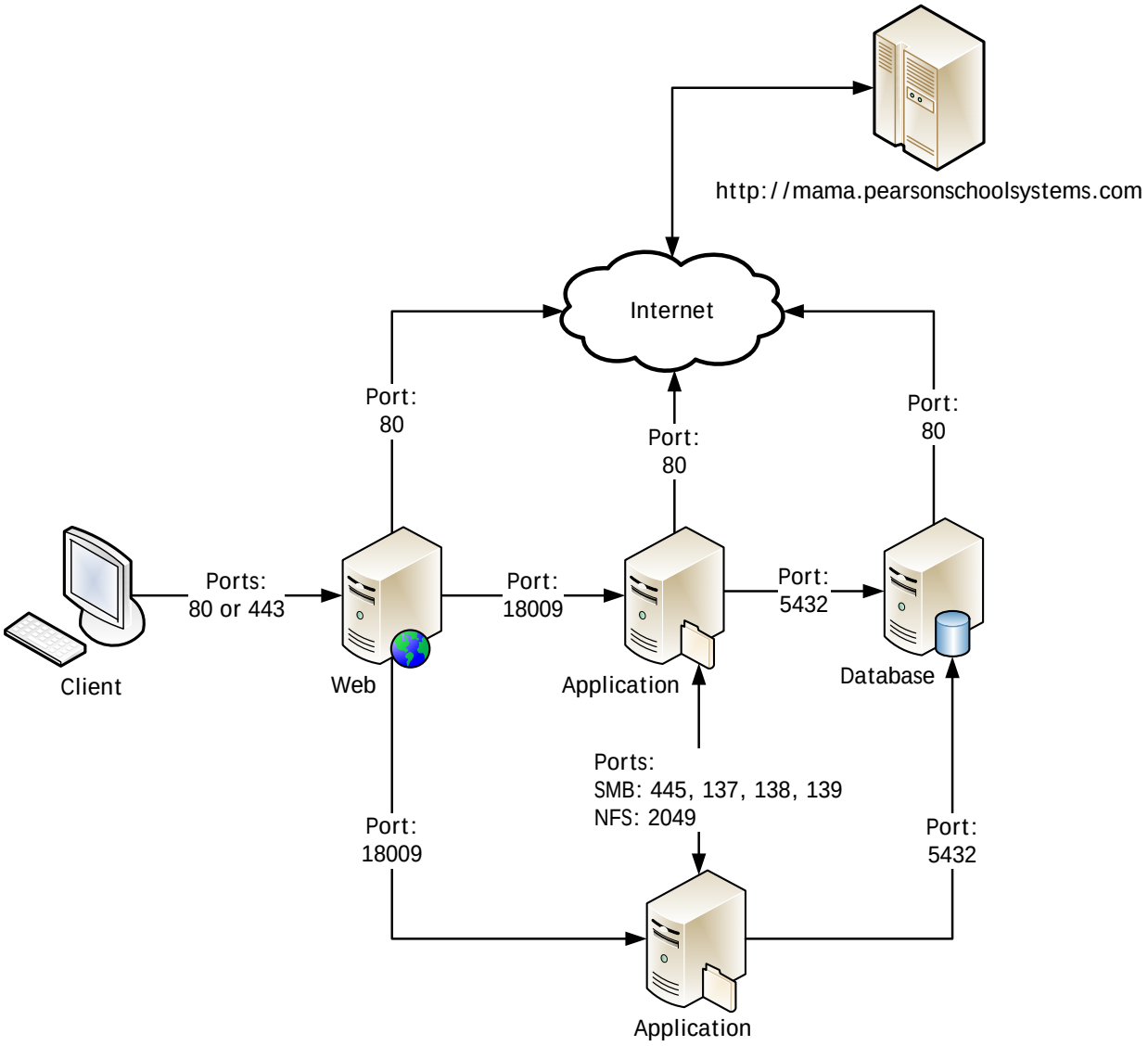
Notes: Estimates are based on product traffic only, without overhead.

Contact your Pearson Sales Engineer to determine the best implementation option.

9

Firewall Settings

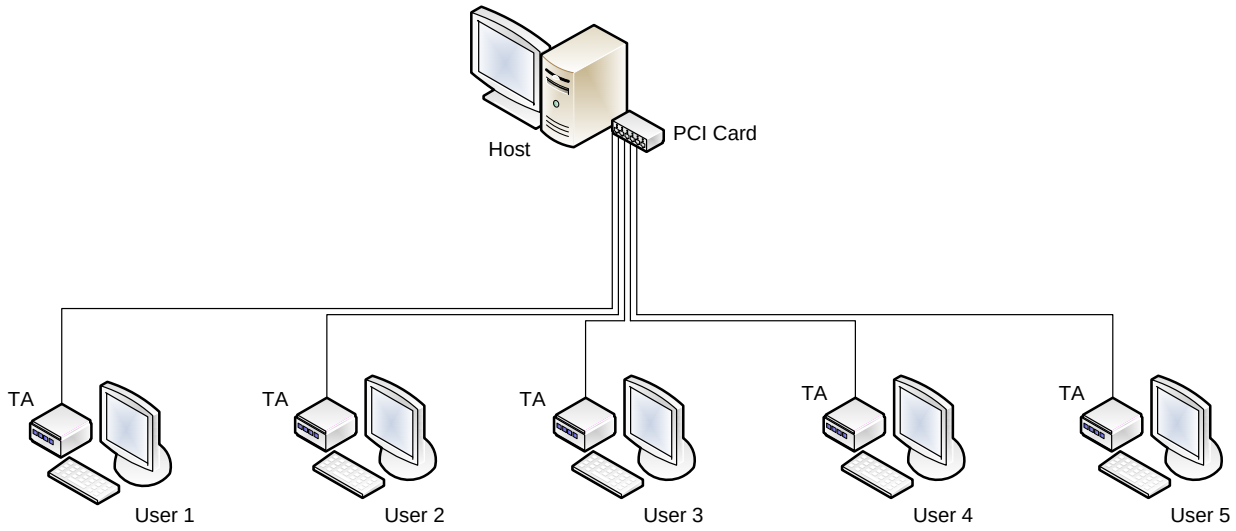
The following is a guide for firewall settings.



10

NComputing Host

NComputing provides a software- and hardware-based solution that allows multiple students to have a Terminal Adapter (TA) with a monitor, keyboard, mouse, and audio, where all access a shared host (CPU, RAM, network, and hard drive).



X-Series

X550 PCI Card

Single X550 – Supports up to 5 concurrent clients + host

Operating System:

- ***** Windows XP SP3 (32-bit) *See Windows XP note.*
- Windows Server 2003 R2 SP2 (32-bit)
- Windows Server 2008 R2 SP1 (64-bit)
- ***** Windows 7 SP1 (32-bit / 64-bit)

* Notes:

Updates and support from Microsoft are no longer available for Windows XP as of April 8, 2014.

Windows Server and appropriate client access licenses are required for multiuser environments using NComputing products. Client operating systems, such as Windows XP, Windows Vista, and Windows 7, are appropriate for single user applications such as 1:1 VDI, display systems, and remote access. Only Professional, Business, Enterprise, and Ultimate versions of client OS's are supported; Home versions are NOT supported. Additional information on licensing is available at www.ncomputing.com/mslicensing.

Hardware:

- Single Intel Core 2 Duo 3.0 GHz processor
- 3 GB of RAM (32-bit) / 6 GB of RAM (64-bit)
- Single 1000 Mb/s Network Interface Card (NIC)
- Single 7200 RPM SATA hard drive
- Analog headset for each Terminal Adapter
- USB headset for host

Software:

- Windows Server CAL per NComputing Terminal Adapter
- Windows RDP CAL per NComputing Terminal Adapter

Note: Fluency is supported up to 6 TAs.